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Air Temperature Sensor - Variohm
Part # H-ATS-VAR
Technical Diagram - Page 1 of 1

Drawing Revision 1 - 31/7/25

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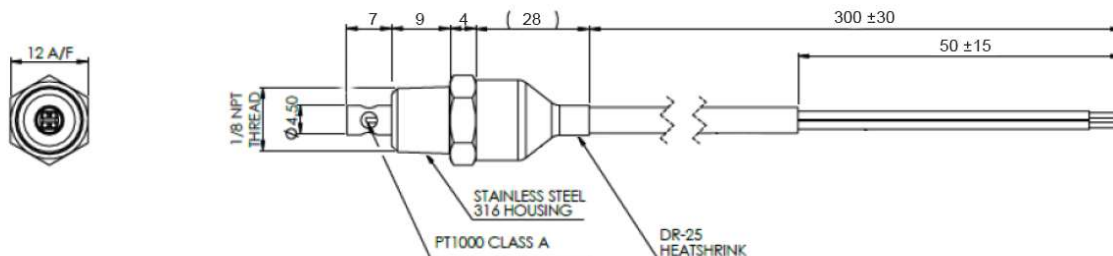www.efihardware.com

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The H-ATS-VAR is a passive air temperature sensor with a a wide working temperature range and is designed for harsh environments.

12 A/F

1/8 NPT THREAD
Ø4.50
7 9 4 (28)
300 ±30
50 ±15

STAINLESS STEEL 316 HOUSING
PT1000 CLASS A
DR-25 HEATSHRINK

SENSOR SPECIFICATIONS

Working Temperature -	-55° C to +230° C
Recommended Pullup Resistor -	1,000Ω
Housing -	316 Stainless Steel
Electrical Cable -	FEP 4 core AWG24, tinned copper shield, 3.2 mm OD
Electrical Cable Sleeving -	Raychem DR25

VOLTAGE AND RESISTANCE SPECIFICATIONS

PT1000A Temperature Sensor Lookup Table

Configuration: PT1000A sensor with 1kΩ pullup resistor
Supply Voltage: 5.0V
Formula: $V_{sensor} = 5.0V \times (R_{sensor} / (1000\Omega + R_{sensor}))$

Temperature (°C)	Resistance (Ω)	Sensor Voltage (V)
-70	723.30	2.099
-60	763.30	2.164
-50	803.10	2.227
-40	842.70	2.287
-30	882.20	2.344
-20	921.60	2.398
-10	960.90	2.450
0	1000.00	2.500
10	1039.00	2.548
20	1077.90	2.594
30	1116.70	2.638
40	1155.40	2.680
50	1194.00	2.721
60	1232.40	2.760
70	1270.80	2.798
80	1309.00	2.835
90	1347.10	2.870
100	1385.10	2.904
110	1422.90	2.936
120	1460.70	2.968
130	1498.30	2.999
140	1535.80	3.028
150	1573.30	3.057
160	1610.50	3.085
170	1647.70	3.112
180	1684.80	3.138
190	1721.70	3.163
200	1758.60	3.187
210	1795.30	3.211
220	1831.90	3.234
230	1868.40	3.257
240	1904.70	3.279
250	1941.00	3.300
260	1977.10	3.321
270	2013.10	3.341
280	2049.00	3.360